FEB 2 1 2006

Name of Inventors: Saligrama Venkatesh et al.
Name & Telephone Number of Person to Call If Necessary:
Scott A. Blake - (419) 255-5900

Serial No. 09/692,268

Sheet 1 of 16

Docket No. 1-82248

FIG. 1

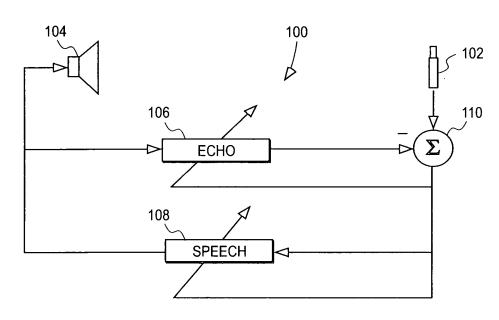
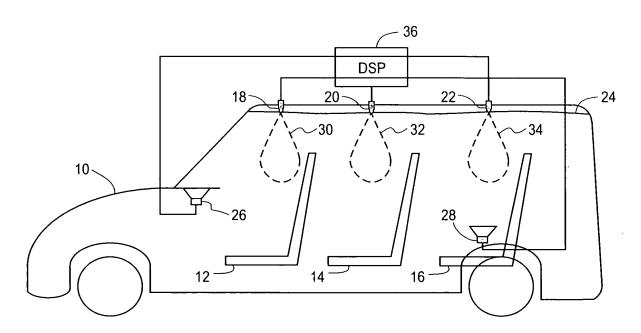


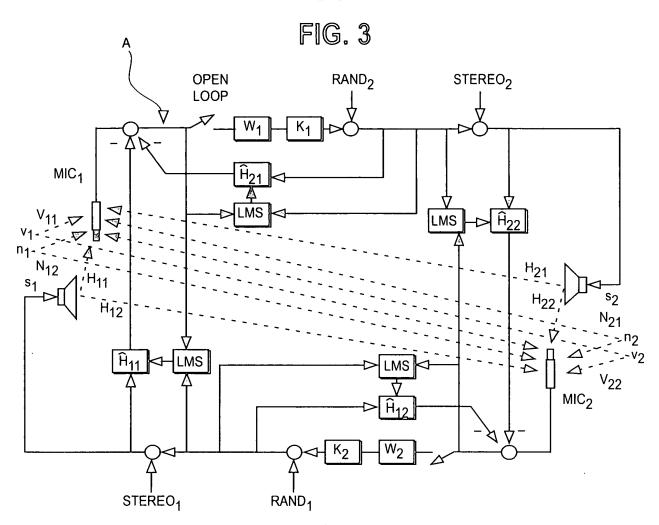
FIG. 2

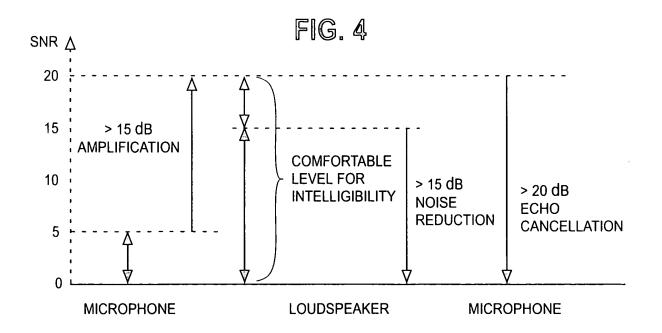


Serial No. 09/692,268

Sheet 2 of 16

Docket No. 1-82248





Name of Inventors: Saligrama Venkatesh et al.
Name & Telephone Number of Person to Call If Necessary:
Scott A. Blake - (419) 255-5900 Serial No. 09/692,268 Docket No. 1-82248 Sheet 3 of 16 3/16 ANALOG -LPF 4 POLE FC=2.5 KH_Z INTERPOLATE Fs=20 KH_Z -312 FO Wiener Filter 300 DIGITAL 310 BPF 4TH ORDER (350.2000)OPTIM. 4 SAMPLE FS=5 KH_Z MEL 302 ~ 42 FIG. 6 FC=1.7 KH₂ LPF 4 POLE ANALOG HPF 2 POLE FC=50 H_Z

. 88

FIG. 5

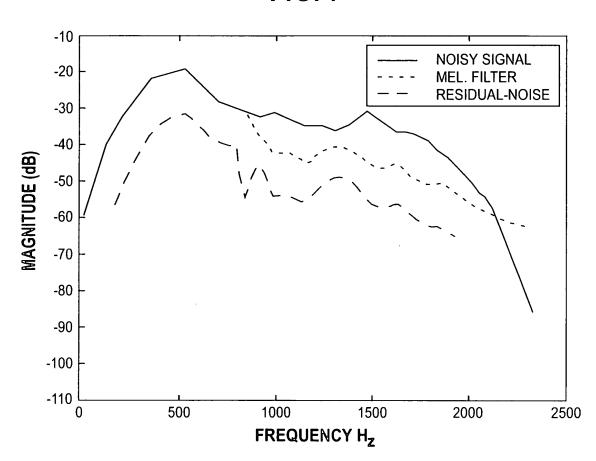
Name of Inventors: Saligrama Venkatesh et al.
Name & Telephone Number of Person to Call If Necessary:
Scott A. Blake - (419) 255-5900

Serial No. 09/692,268

Sheet 4 of 16

Docket No. 1-82248

FIG. 7



Serial No. 09/692,268

Sheet 5 of 16

Docket No. 1-82248

FIG. 8

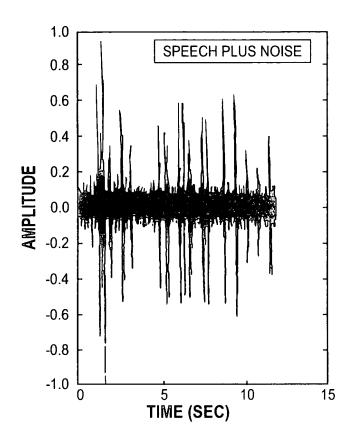
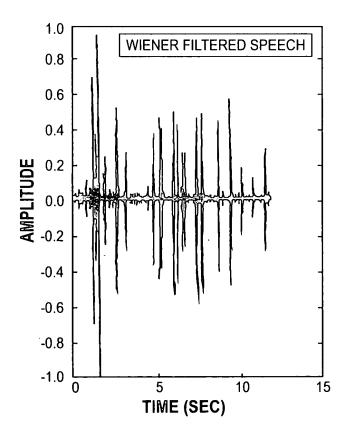
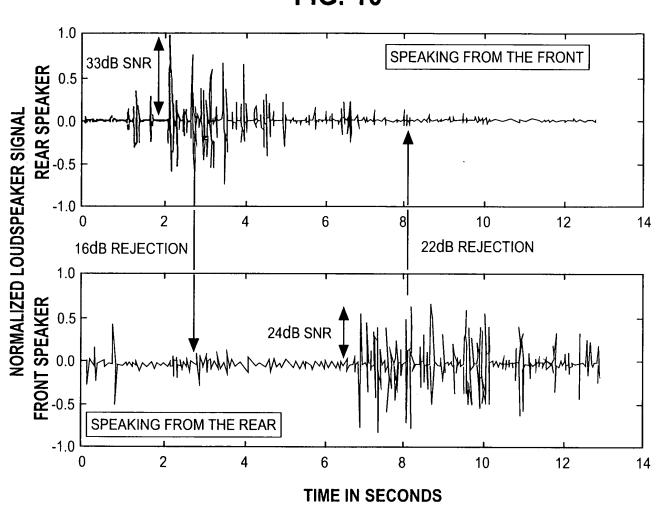


FIG. 9



Serial No. Docket No. 09/692,268 Sheet 6 of 16 1-82248

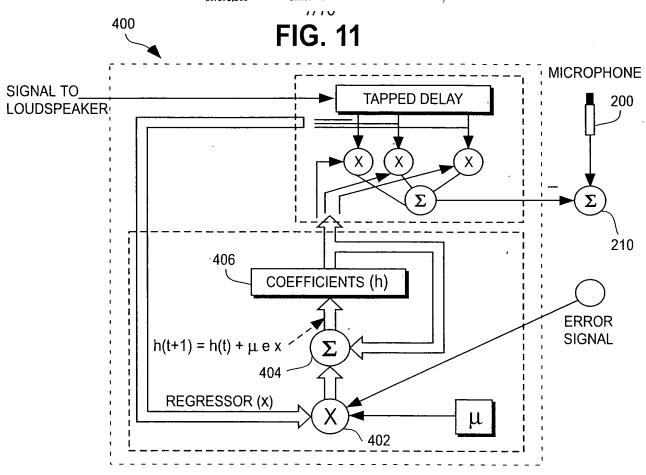
FIG. 10

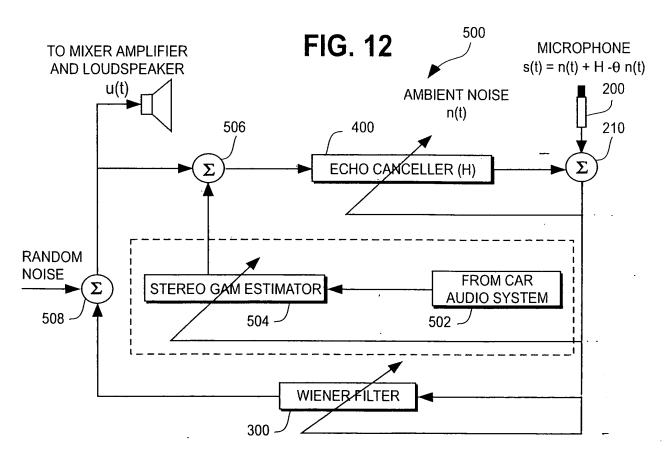


09/692,268

Sheet 7 of 16

1-82248





Name of Inventors: Saligrama Venkatesh et al.
Name & Telephone Number of Person to Call If Necessary:
Scott A. Blake - (419) 255-5900

Serial No. 09/692,268

Sheet 8 of 16

Docket No.

8/16

FIG. 13

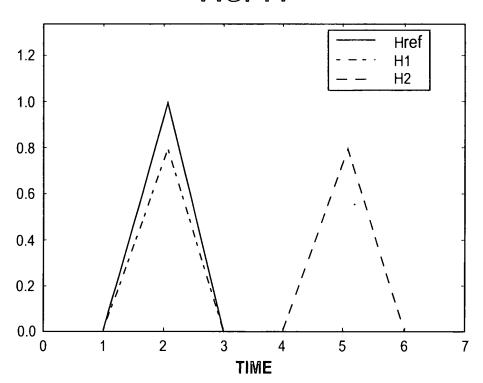
```
m=20;delays=30;sig=.00;n=170;
y=filter(h,1,r)+sig*n;
htp1=ht(1:delays+m);
pn=eye(m);
L=length(ht);
ind=delays+m:m:n;
lind=length(ind);
kg=zeros(m,(lind-1) *m+1);
for j=1:lind
ind0(1:m,j)=[(j-1) *m+1:j *m] +delays;
end
htemp=ht(ind0);
for k-200:10000
ind1=k-ind0;
[htemp(:,1)k0,pn,an]=rls1(pn,y(k-1),r(ind1(:,1)),htemp(:,1),1);
for I=(ind-1) *m:-1:1
kg(:,I+1)=kg(:,I):
end
kg(:,1)=k0;
for j=2:lind
htemp(:,j)=htemp(:,j)+kg(:,(j-1)*m+1)*(an-htemp(:,j)^{1}*r(ind1(:,j)));
end
```

Serial No. 09/692,268

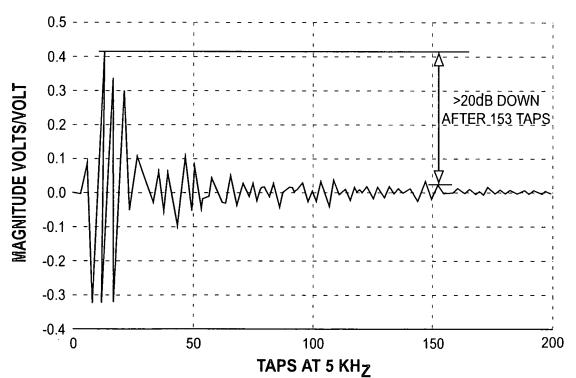
Sheet 9 of 16

Docket No 1-82248

FIG. 14







Name of Inventors: Saligrama Venkatesh et al. Name & Telephone Number of Person to Call If Necessary Scott A. Blake - (419) 255-5900

Serial No. 09/692,268

Sheet 10 of 16

Docket No. 1-82248



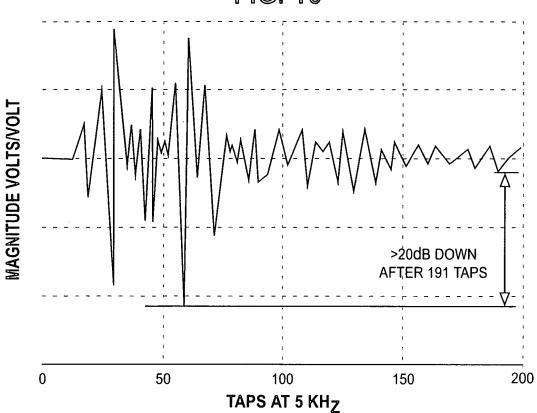
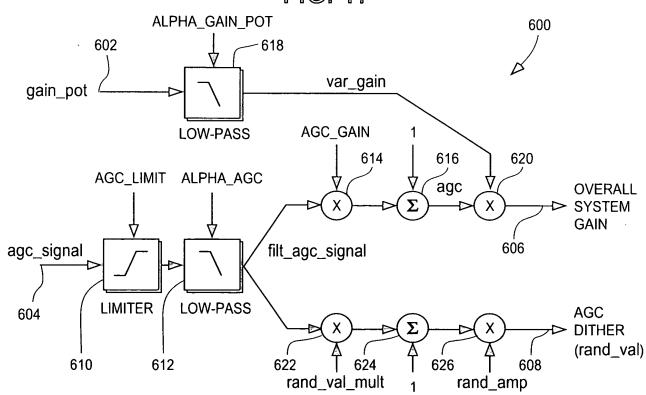


FIG. 17



Serial No. 09/692,268

Sheet 11 of 16

Docket No 1-82248

FIG. 18

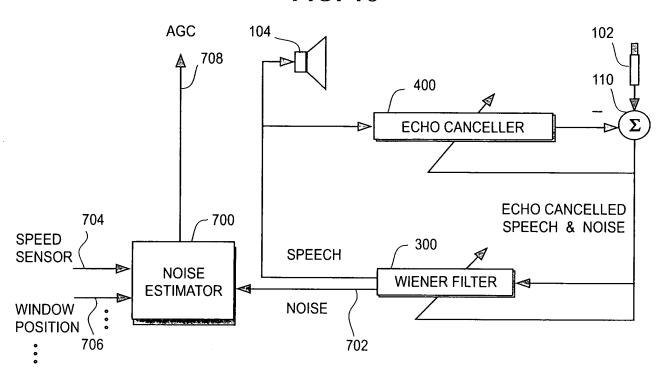
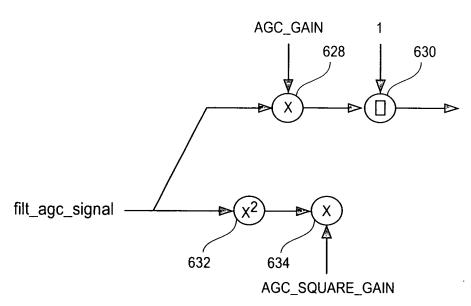


FIG. 19



Name of Inventors: Saligrama Venkatesh et al. Name & Telephone Number of Person to Call If Necessary: Scott A. Blake - (419) 255-5900

Serial No. 09/692,268

Sheet 12 of 16

Docket No 1-82248

FIG. 20

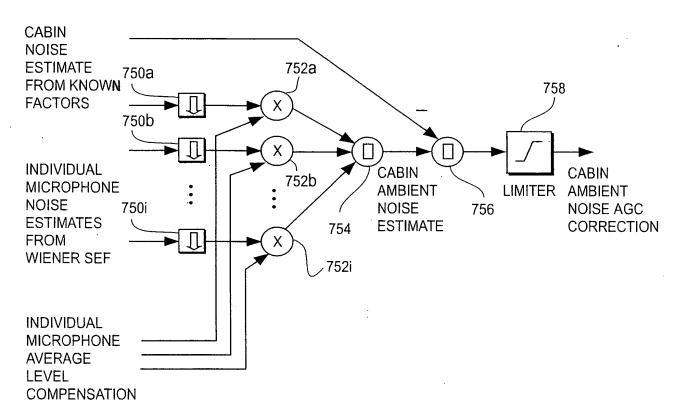
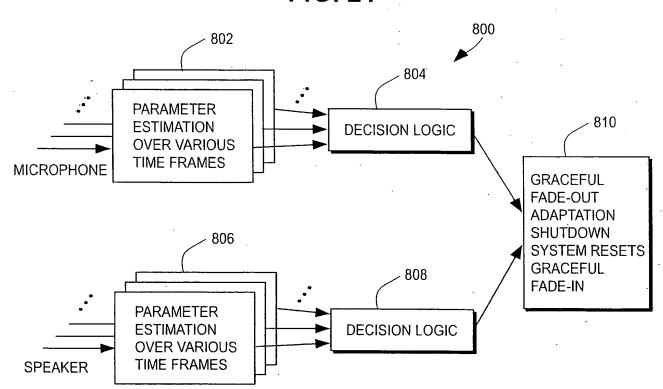


FIG. 21



Name of Inventors: Saligrama Venkatesh et al. Name & Telephone Number of Person to Call If Necessary

Serial No. 09/692,268

Sheet 13 of 16

Docket No 1-82248

FIG. 22

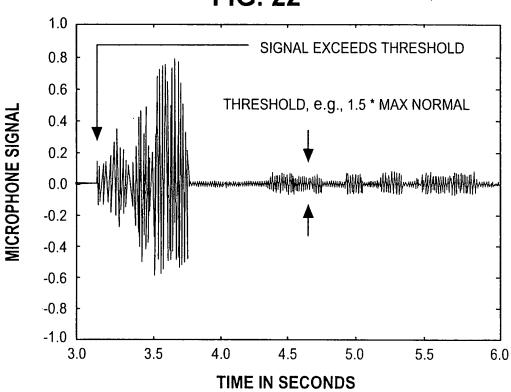
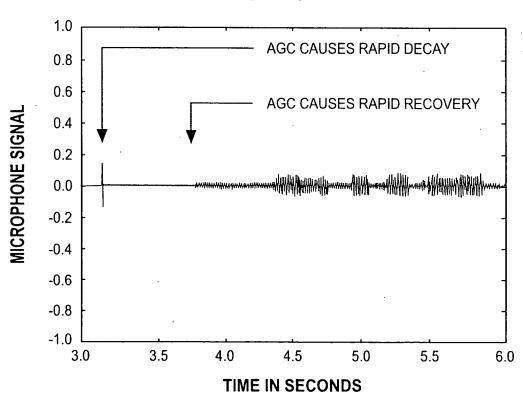


FIG. 23



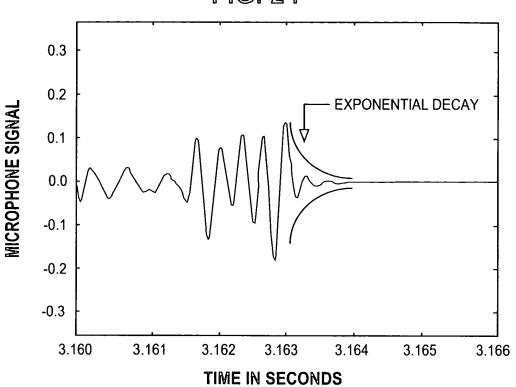
Name of Inventors: Saligrama Venkatesh et al.
Name & Telephone Number of Person to Call If Necessary
Scott A. Blake - (419) 255-5900

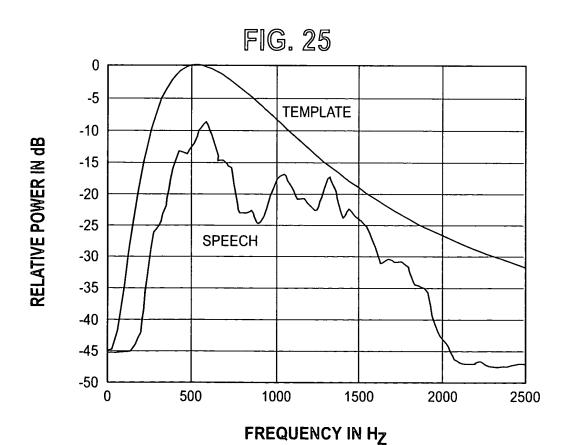
Serial No. 09/692,268

Sheet 14 of 16

Docket No. 1-82248

FIG. 24





Serial No. 09/692,268

Sheet 15 of 16

Docket No. 1-82248

